

causality, as why there was an heart here, and brains there ; and why the heart had so many and such different valves in the entrance and outlet of its ventricles; and why all thie other organic parts, veins and arteries, nerves and muscles, bones arid cartilage\$,with the joints and members, wereof such a form ? Because forsooth, the fluid matter of the seed happened to move so and so in several places, and thereby to cause all those differences, Which are also diverse in different animals; all being the necessary result of a certain quantity of motion at first indifferently impressed upon the small particles of the matter of this universe turned round in a vortex. But, as the same Aristotle adds, no carpenter or artificer is so simple, as to give such an account as this, and think it satisfactory, but he will rather declare, that himself directed the motion of the instruments, after sucl) a manner, and in order to such ends: ^BIX-

, TIOI) o T€/crtov, ov yap IKCLVOV corai avmE,
 TO TOH* GQVTOV stTrav, on l/i7T€<iovroc Vov
 of>ydvov, &C. aXXa Store rrjv irXrjyriy ttoiricFaTO
 roiaVTiTv, KCLI nvoc eve/ca, epet rijv alriav, OTTWC
 rotoVSe rj rotoVSijTrorc r^v fto^rjv yivrtrai. A
 carpenter would give a better account
 than so, for he would "not think it
 sufficient to say, that the fabric came to
 be of such a form, because the instri^
 ments happened to fall so and so, but
 he will tell you that it was because
 himself makesuch strokes, and that he
 directed the instruments and deter-
 mined their motion after such a
 manner, to this end, that he might
 make the whole a fabric fit and useful
 for such purposes.^—And this is to
 assign the final cause. And certainly
 there is scarcely any man in his wits,
 that will not acknowledge the reason of
 the different valves in the heart from
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